
Robust Software Engineering Verification and Validation Group

PATHFINDER INCLUDED IN GOOGLE SUMMER OF CODE

HIGHLIGHT: Java PathFinder (JPF) has been included in the 2008 Google Summer of Code (GSoC). Under this program, Google offers student developers stipends to write code for various open source projects. Over the past three years, GSoC has brought together over 1500 students and 2000 mentors from 90 countries worldwide. The PathFinder team will define the set of tasks the Google funding would support.

BACKGROUND: JPF is a tool suite for software model checking of Java bytecode programs. It is used as a replacement of the “java” command, to execute applications in a variety of ways in order to find program defects like deadlocks and unhandled exceptions. JPF can systematically explore different thread scheduling sequences, and supports variation of test data with user-defined heuristics. There are various extensions for guided model checking, symbolic execution, compositional verification, and numerical analysis.

JPF was developed by the Robust Software Engineering (RSE) group, and open sourced under the NASA Open Source Agreement license in April 2004. The software can be obtained from <http://javapathfinder.sourceforge.net>

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COLLABORATOR: Google, Inc.

POC: Peter Mehltz, Peter.C.Mehltz@nasa.gov
